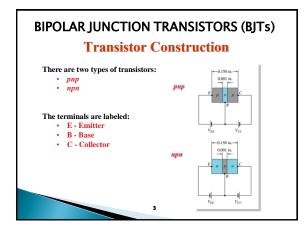
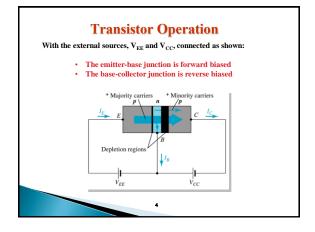
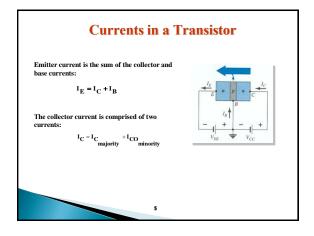
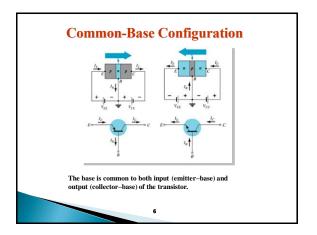
#### DEVRELER ve SİSTEMLER BIMU2058 – CSBM2092 Yrd. Doç. Dr. Fatih KELEŞ

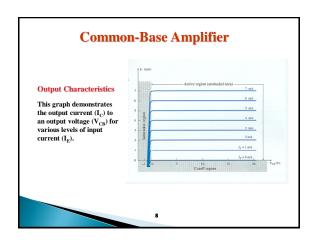
#### içerik Transistorlar Bipolar Transistorlar BJT Alan Etkili Transistorlar FET JFET MOSFET

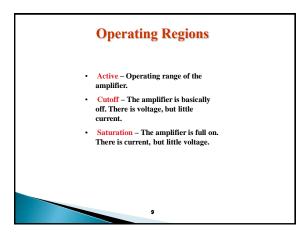


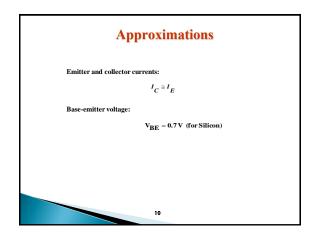


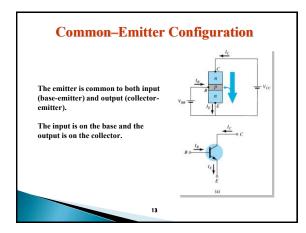


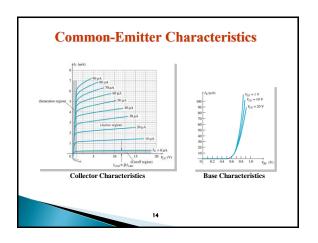


# Common-Base Amplifier Input Characteristics This curve shows the relationship between of input current ( $I_E$ ) to input voltage ( $V_{CB}$ ) levels. $V_{CB} = 10V$ $V_{CB} = 1V$ 


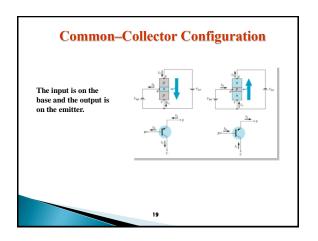


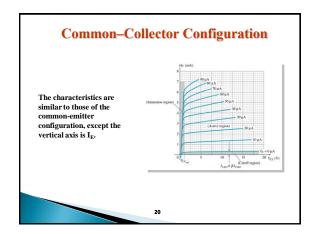


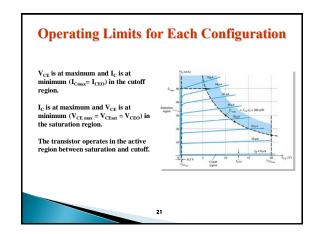


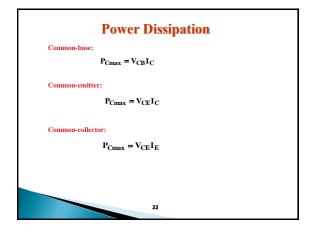


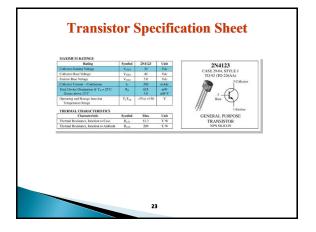
# Beta (eta) eta represents the amplification factor of a transistor. (eta is sometimes referred to as $h_{fe}$ , a term used in transistor modeling calculations) In DC mode: $eta_{dc} = rac{I_C}{I_B}$ In AC mode: $eta_{ac} = rac{\Delta Ic}{\Delta I_B} \Big|_{V_{CE} = {\rm constant}}$



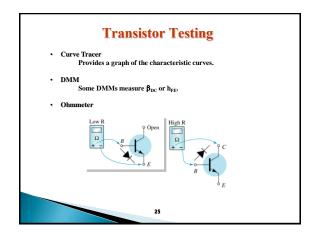


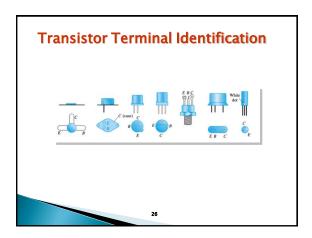


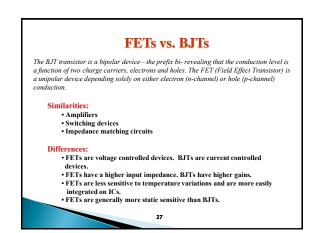


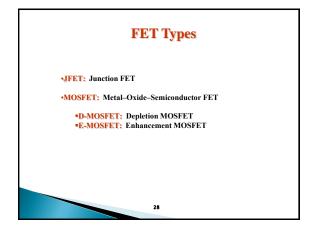


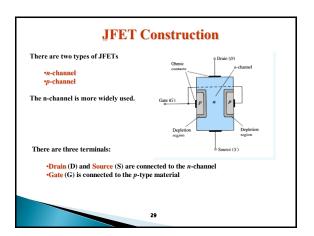


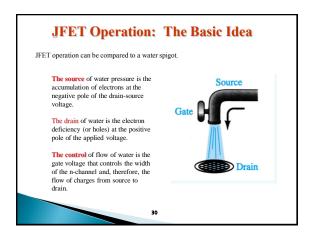


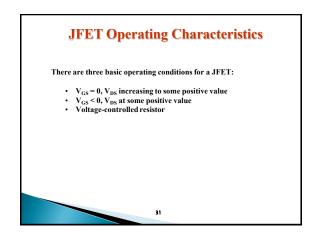


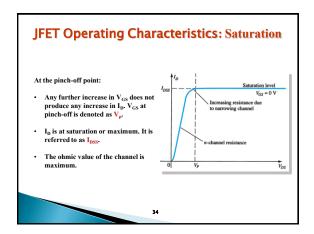


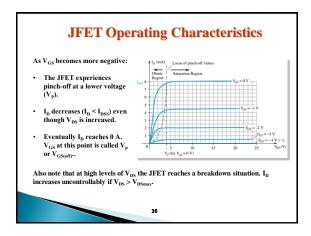


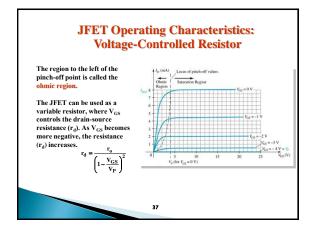


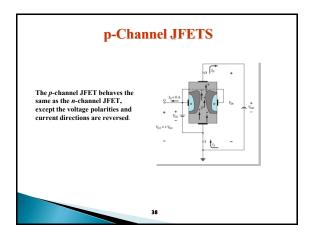


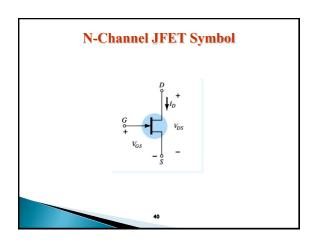


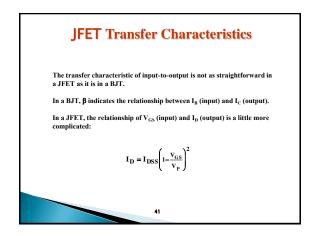


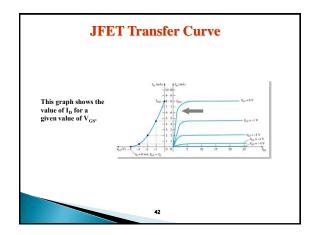


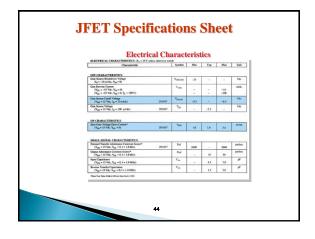


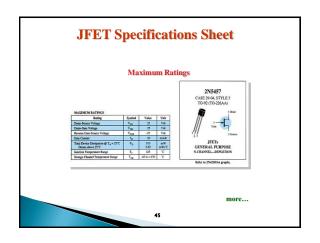


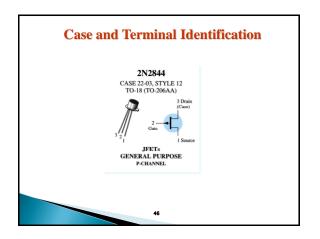












## Testing JFETs • Curve Tracer A curve tracer displays the I<sub>D</sub> versus V<sub>DS</sub> graph for various levels of V<sub>GS</sub>. • Specialized FET Testers These testers show I<sub>DSS</sub> for the JFET under test.

